# Dong-Chan Koh

List of Publications by Year
in descending order

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| 91 | 1,913 | 279487 | 276539 |
|---|---|---|---|
| papers | citations | 23 h-index | 41 g-index |

| 91 | 91 | 91 | 2001 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hydrogeochemical and isotopic evidence of groundwater salinization in a coastal aquifer: a case study in Jeju volcanic island, Korea. Journal of Hydrology, 2003, 270, 282-294. | 2.3 | 269 |
| 2 | Identification of nitrate and sulfate sources in groundwater using dual stable isotope approaches for an agricultural area with different land use (Chuncheon, mid-eastern Korea). Agriculture, Ecosystems and Environment, 2009, 132, 223-231. | 2.5 | 132 |
| 3 | Land-use controls on sources and fate of nitrate in shallow groundwater of an agricultural area revealed by multiple environmental tracers. Journal of Contaminant Hydrology, 2010, 118, 62-78. | 1.6 | 81 |
| 4 | Application of environmental tracers to mixing, evolution, and nitrate contamination of ground water in Jeju Island, Korea. Journal of Hydrology, 2006, 327, 258-275. | 2.3 | 78 |
| 5 | Use of time series analysis for the identification of tidal effect on groundwater in the coastal area of Kimje, Korea. Journal of Hydrology, 2005, 300, 188-198. | 2.3 | 75 |
| 6 | Hydrologic Controls on Nitrogen Cycling Processes and Functional Gene Abundance in Sediments of a Groundwater Flow-Through Lake. Environmental Science & Technology, 2016, 50, 3649-3657. | 4.6 | 75 |
| 7 | Evidence for terrigenic SF6 in groundwater from basaltic aquifers, Jeju Island, Korea: Implications for groundwater dating. Journal of Hydrology, 2007, 339, 93-104. | 2.3 | 61 |
| 8 | Effect of agricultural land use on the chemistry of groundwater from basaltic aquifers, Jeju Island, South Korea. Hydrogeology Journal, 2007, 15, 727-743. | 0.9 | 61 |
| 9 | Hydrogeochemistry and environmental isotopes of ground water in Jeju volcanic island, Korea: implications for nitrate contamination. Hydrological Processes, 2005, 19, 2225-2245. | 1.1 | 57 |
| 10 | Baseline geochemical characteristics of groundwater in the mountainous area of Jeju Island, South Korea: Implications for degree of mineralization and nitrate contamination. Journal of Hydrology, 2009, 376, 81-93. | 2.3 | 47 |
| 11 | Oxidation and reduction of redox-sensitive elements in the presence of humic substances in subsurface environments: A review. Chemosphere, 2019, 220, 86-97. | 4.2 | 45 |
| 12 | Unmanned aerial vehicles (UAVs)â€based thermal infrared (TIR) mapping, a novel approach to assess groundwater discharge into the coastal zone. Limnology and Oceanography: Methods, 2016, 14, 725-735. | 1.0 | 44 |
| 13 | Flow paths and mixing properties of groundwater using hydrogeochemistry and environmental tracers in the southwestern area of Jeju volcanic island. Journal of Hydrology, 2012, 432-433, 61-74. | 2.3 | 41 |
| 14 | Molecular analysis of spatial variation of iron-reducing bacteria in riverine alluvial aquifers of the Mankyeong River. Journal of Microbiology, 2012, 50, 207-217. | 1.3 | 39 |
| 15 | Periodic change in coastal microbial community structure associated with submarine groundwater discharge and tidal fluctuation. Limnology and Oceanography, 2017, 62, 437-451. | 1.6 | 38 |
| 16 | Application of cluster analysis for the hydrogeochemical factors of saline groundwater in Kimje, Korea. Geosciences Journal, 2003, 7, 313-322. | 0.6 | 37 |
| 17 | Effects of groundwater residence time and recharge rate on nitrate contamination deduced from Î´18O, Î´D, 3H/3He and CFCs in a small agricultural area in Chuncheon, Korea. Journal of Hydrology, 2009, 366, 101-111. | 2.3 | 36 |
| 18 | Stable Isotopes of Water and Nitrate for the Identification of Groundwater Flowpaths: A Review. Water (Switzerland), 2020, 12, 138. | 1.2 | 34 |

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|---|---|---|---|
| 19 | Toxicity Evaluation of Individual and Mixtures of Nanoparticles Based on Algal Chlorophyll Content and Cell Count. Materials, 2018, 11, 121. | 1.3 | 29 |
| 20 | Estimation of layered aquifer diffusivity and river resistance using flood wave response model. Journal of Hydrology, 2007, 337, 284-293. | 2.3 | 28 |
| 21 | Applications of Isotope Ratio Infrared Spectroscopy (IRIS) to Analysis of Stable Isotopic Compositions of Liquid Water. Economic and Environmental Geology, 2013, 46, 495-508. | 0.2 | 28 |
| 22 | Temporal variability of nitrate concentration in groundwater affected by intensive agricultural activities in a rural area of Hongseong, South Korea. Environmental Earth Sciences, 2015, 74, 6147-6161. | 1.3 | 26 |
| 23 | Comparison of groundwater age models for assessing nitrate loading, transport pathways, and management options in a complex aquifer system. Hydrological Processes, 2018, 32, 923-938. | 1.1 | 25 |
| 24 | Using stable isotopes and tritium to delineate groundwater flow systems and their relationship to streams in the Geum River basin, Korea. Journal of Hydrology, 2019, 573, 267-280. | 2.3 | 23 |
| 25 | Factors controlling groundwater chemistry in an agricultural area with complex topographic and land use patterns in midâ€western South Korea. Hydrological Processes, 2009, 23, 2915-2928. | 1.1 | 22 |
| 26 | Occurrence and mobility of major and trace elements in groundwater from pristine volcanic aquifers in Jeju Island, Korea. Applied Geochemistry, 2016, 65, 87-102. | 1.4 | 21 |
| 27 | Evaluating the impacts of intense seasonal groundwater pumping on streamâ€“aquifer interactions in agricultural riparian zones using a multi-parameter approach. Journal of Hydrology, 2020, 584, 124683. | 2.3 | 21 |
| 28 | Fe and Mn levels regulated by agricultural activities in alluvial groundwaters underneath a flooded paddy field. Applied Geochemistry, 2008, 23, 44-57. | 1.4 | 20 |
| 29 | Submarine groundwater discharge revealed by aerial thermal infrared imagery: a case study on Jeju Island, Korea. Hydrological Processes, 2016, 30, 3494-3506. | 1.1 | 18 |
| 30 | The Hydrogeochemical Characteristics of Groundwater Subjected to Seawater Intrusion in the Archipelago, Korea. Water (Switzerland), 2020, 12, 1542. | 1.2 | 18 |
| 31 | Evaluation of the Effects of Particle Sizes of Silver Nanoparticles on Various Biological Systems. International Journal of Molecular Sciences, 2020, 21, 8465. | 1.8 | 17 |
| 32 | Estimation of river stage effect on groundwater level, discharge, and bank storage and its field application. Geosciences Journal, 2008, 12, 191-204. | 0.6 | 16 |
| 33 | A seasonality of Î´D of water vapor (850-500 hPa) observed from space over Jeju Island, Korea. Geosciences Journal, 2013, 17, 87-95. | 0.6 | 16 |
| 34 | Influence of pre-event water on streamflow in a granitic watershed using hydrograph separation. Environmental Earth Sciences, 2017, 76, 1. | 1.3 | 16 |
| 35 | Characterization of thermally treated Co2+-exchanged zeolite X. Applied Catalysis B: Environmental, 2012, 127, 68-76. | 10.8 | 14 |
| 36 | Hydrogeochemical characteristics of groundwater influenced by reclamation, seawater intrusion, and land use in the coastal area of Yeonggwang, Korea. Geosciences Journal, 2019, 23, 603-619. | 0.6 | 14 |

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| 37 | Using 222Rn as a naturally occurring tracer to estimate NAPL contamination in an aquifer. Applied Radiation and Isotopes, 2013, 81, 233-237. | 0.7 | 13 |
| 38 | Monitoring of CO2-rich waters with low pH and low EC: an analogue study of CO2 leakage into shallow aquifers. Environmental Earth Sciences, 2016, 75, 1. | 1.3 | 13 |
| 39 | Evaluation of the Effects of Nanoparticle Mixtures on Brassica Seed Germination and Bacterial Bioluminescence Activity Based on the Theory of Probability. Nanomaterials, 2017, 7, 344. | 1.9 | 13 |
| 40 | The geochemical implication of a variable Eu anomaly in a fractured gneiss core: application for understanding Am behavior in the geological environment. Applied Geochemistry, 2004, 19, 1711-1725. | 1.4 | 12 |
| 41 | Mean transit time and subsurface flow paths in a humid temperate headwater catchment with granitic bedrock. Journal of Hydrology, 2020, 587, 124942. | 2.3 | 12 |
| 42 | Evaluation of multiple regression models using spatial variables to predict nitrate concentrations in volcanic aquifers. Hydrological Processes, 2016, 30, 663-675. | 1.1 | 11 |
| 43 | Relationship of groundwater geochemistry and flow to volcanic stratigraphy in basaltic aquifers affected by magmatic CO2, Jeju Island, Korea. Chemical Geology, 2017, 467, 143-158. | 1.4 | 11 |
| 44 | Influences of Fractionation of Stable Isotopic Composition of Rain and Snowmelt on Isotopic Hydrograph Separation. Journal of the Korean Earth Science Society, 2014, 35, 97-103. | 0.0 | 11 |
| 45 | Comparative Effects of Particle Sizes of Cobalt Nanoparticles to Nine Biological Activities. International Journal of Molecular Sciences, 2020, 21, 6767. | 1.8 | 10 |
| 46 | Integrated assessment of major element geochemistry and geological setting of traditional natural mineral water sources in South Korea at the national scale. Journal of Hydrology, 2021, 598, 126249. | 2.3 | 10 |
| 47 | The effect of ionic strength and hardness of trichloroethylene-contaminated synthetic groundwater on remediation using granular activated carbon. Geosciences Journal, 2007, 11, 229-239. | 0.6 | 9 |
| 48 | Delineation of recharge patterns and contaminant transport using 3Hâ€“3He in a shallow aquifer contaminated by chlorinated solvents in South Korea. Hydrogeology Journal, 2014, 22, 1041-1054. | 0.9 | 9 |
| 49 | Evaluating the responses of alluvial and bedrock aquifers to earthquakes (ML5.1 and ML5.8) using hydrological and environmental tracer data. Hydrogeology Journal, 2019, 27, 2011-2025. | 0.9 | 9 |
| 50 | Combined effects of recharge and hydrogeochemical conditions on nitrate in groundwater of a highland agricultural basin based on multiple environmental tracers. Agricultural Water Management, 2020, 240, 106327. | 2.4 | 8 |
| 51 | Comparisons of the Effect of Different Metal Oxide Nanoparticles on the Root and Shoot Growth under Shaking and Non-Shaking Incubation, Different Plants, and Binary Mixture Conditions. Nanomaterials, 2021, 11, 1653. | 1.9 | 8 |
| 52 | Examination for Efficiency of Groundwater Artificial Recharge in Alluvial Aquifer Near Nakdong River of Changweon Area, Korea. Economic and Environmental Geology, 2014, 47, 611-623. | 0.2 | 8 |
| 53 | Assessing aquifer responses to earthquakes using temporal variations in groundwater monitoring data in alluvial and sedimentary bedrock aquifers. Geomatics, Natural Hazards and Risk, 2020, 11, 742-765. | 2.0 | 7 |
| 54 | Spatial distributions of oxygen and hydrogen isotopes in multi-level groundwater across South Korea: A case study of mountainous regions. Science of the Total Environment, 2022, 812, 151428. | 3.9 | 7 |

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| 55 | An open loop equilibrator for continuous monitoring of radon at the groundwaterâ€“surface water interface. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 33-39. | 0.7 | 6 |
| 56 | Hydrogeochemical and isotopic features of the groundwater flow systems in the central-northern part of Jeju Island (Republic of Korea). Journal of Geochemical Exploration, 2017, 175, 99-109. | 1.5 | 6 |
| 57 | Quantification of seasonally variable water flux between aquifer and stream in the riparian zones with water curtain cultivation activities using numerical simulation. Journal of the Geological Society of Korea, 2017, 53, 277-290. | 0.3 | 6 |
| 58 | In-situ microbial colonization and its potential contribution on biofilm formation in subsurface sediments. Journal of Applied Biological Chemistry, 2019, 62, 51-56. | 0.2 | 6 |
| 59 | Seasonal variation of 7Be and 3H in Korean ambient air and rain. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 1629-1633. | 0.7 | 5 |
| 60 | Hydrogeologic and Paleo-Geographic Characteristics of Riverside Alluvium at an Artificial Recharge Site in Korea. Water (Switzerland), 2018, 10, 835. | 1.2 | 5 |
| 61 | Recharge and spatial distribution of groundwater hydrochemistry in the Geum River basin, South Korea. Journal of Radioanalytical and Nuclear Chemistry, 2021, 330, 397-412. | 0.7 | 5 |
| 62 | Characterization of Nitrate Contamination and Hydrogeochemistry of Groundwater in an Agricultural Area of Northeastern Hongseong. Journal of Soil and Groundwater Environment, 2013, 18, 33-51. | 0.1 | 5 |
| 63 | A Pulse of Meteoric Subsurface Fluid Discharging Into the Chukchi Sea During the Early Holocene Thermal Maximum (EHTM). Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009750. | 1.0 | 4 |
| 64 | Geochemical Implication of Chemical Composition of Mineral Water (Bottled Water) Produced Near Mt. Baekdu (Changbai), Northeast China. Water (Switzerland), 2021, 13, 2191. | 1.2 | 4 |
| 65 | Old Water Contributions to a Granitic Watershed, Dorim-cheon, Seoul. Journal of Soil and Groundwater Environment, 2015, 20, 34-40. | 0.1 | 4 |
| 66 | Estimation of Stream Discharge using Antecedent Precipitation Index Models in a Small Mountainous Forested Catchment: Upper Reach of Yongsucheon Stream, Gyeryongsan Mountain. Journal of Soil and Groundwater Environment, 2016, 21, 36-45. | 0.1 | 4 |
| 67 | A Review on the Application of Stable Water Vapor Isotope Data to the Water Cycle Interpretation. Journal of Soil and Groundwater Environment, 2015, 20, 34-40. | 0.1 | 4 |
| 68 | Nutrient dynamics in stream water and groundwater in riparian zones of a mesoscale agricultural catchment with intense seasonal pumping. Agricultural Water Management, 2022, 261, 107336. | 2.4 | 4 |
| 69 | Measuring cosmogenic 35S in natural waters using large-volume liquid scintillation counting. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 1739-1745. | 0.7 | 3 |
| 70 | Evaluation of Temporal Contribution of Groundwater to a Small Lake through Analyses of Water Quantity and Quality. Water (Switzerland), 2020, 12, 2879. | 1.2 | 3 |
| 71 | Identifying and quantifying groundwater inflow to a stream using 220Rn and 222Rn as natural tracers. Journal of Hydrology: Regional Studies, 2021, 33, 100773. | 1.0 | 3 |
| 72 | Review on Applications of 17O in Hydrological Cycle. Molecules, 2021, 26, 4468. | 1.7 | 3 |

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| 73 | A Comparative Study of Groundwater Vulnerability Assessment Methods: Application in Gumma, Korea. Journal of Soil and Groundwater Environment, 2013, 18, 119-133. | 0.1 | 3 |
| 74 | Prediction of Seasonal Nitrate Concentration in Springs on the Southern Slope of Jeju Island using Multiple Linear Regression of Geographic Spatial Data. Economic and Environmental Geology, 2011, 44, 135-152. | 0.2 | 3 |
| 75 | Assessing seasonal variations in water sources of streamflow in a temperate mesoscale catchment with granitic bedrocks using hydrochemistry and stable isotopes. Journal of Hydrology: Regional Studies, 2021, 38, 100940. | 1.0 | 3 |
| 76 | A review on solute transport mechanisms in a snowpack. Journal of the Geological Society of Korea, 2014, 50, 681. | 0.3 | 3 |
| 77 | Product-Service Systems Representation With Product and Service Elements and a Case Study. , 2011, , . | | 2 |
| 78 | Geomagnetic field intensity determination from Pleistocene trachytic lava flows in Jeju Geopark. Geochemistry, Geophysics, Geosystems, 2014, 15, 516-529. | 1.0 | 2 |
| 79 | Quantitative estimation of submarine groundwater discharge using airborne thermal infrared data acquired at two different tidal heights. Hydrological Processes, 2019, 33, 1089-1100. | 1.1 | 2 |
| 80 | Statistical analysis relating variations in groundwater level to droughts on Jeju Island, Korea. Journal of Hydrology: Regional Studies, 2021, 36, 100879. | 1.0 | 2 |
| 81 | Conceptualizing a multiâ€layered shingle aquifer model based on volcanic stratigraphy and water inflow to lava caves in Jeju Island, Korea. Hydrological Processes, 2021, 35, e14316. | 1.1 | 2 |
| 82 | Variability in Soil Moisture by Natural and Artificial Snow: A Case Study in Mt. Balwang Area, Gangwon-do, South Korea. Frontiers in Earth Science, 2022, 9, . | 0.8 | 2 |
| 83 | Determination of recharge fraction of injection water in combined abstraction-injection wells using continuous radon monitoring. Journal of Environmental Radioactivity, 2016, 165, 140-143. | 0.9 | 1 |
| 84 | Exposure of Metal Oxide Nanoparticles on the Bioluminescence Process of Pu- and Pm-lux Recombinant P. putida mt-2 Strains. Nanomaterials, 2021, 11, 2822. | 1.9 | 1 |
| 85 | A High-resolution Study of Isotopic Compositions of Precipitation. Economic and Environmental Geology, 2015, 48, 371-377. | 0.2 | 1 |
| 86 | An Analysis of Seawater Effect on Groundwater Quality, in the Region of Sinan-gun area, Jeonam, Korea. Journal of the Korean Earth Science Society, 2017, 38, 570-580. | 0.0 | 1 |
| 87 | A review on the effects of changes of land cover and land use on groundwater-level variations. Journal of the Geological Society of Korea, 2020, 56, 387-394. | 0.3 | 1 |
| 88 | In situ supplies of radiogenic He in residual soils of shallow granite aquifers: Spatial distribution of dissolved He throughout the Korean Peninsula. Applied Geochemistry, 2022, 138, 105233. | 1.4 | 1 |
| 89 | Investigation on the petroleum contamination by using Rn-222 tracer. Analytical Science and Technology, 2012, 25, 14-18. | 0.3 | 0 |
| 90 | Evaluating Effects of Membrane Filter Pore Sizes on Determination of Dissolved Concentrations of Major Elements in Groundwater and Surface Water Near Nakdong River. Journal of Soil and Groundwater Environment, 2015, 20, 31-40. | 0.1 | 0 |

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|---|---|---|---|
| 91 | Hydrogeologic and Hydrogeochemical Assessment of Water Sources in Gwanin Water Intake Plant, Pocheon. Journal of Environmental Impact Assessment, 2016, 25, 209-221. | 0.3 | 0 |